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15 March 2001

Ms. Rosita Clarke, SR-6J Work Assignment Manager United States Environmental Protection Agency 77 West Jackson Boulevard Chicago, Illinois 60604-3590

EPA Region 5 Records Ctr.

U.S. EPA Contract No.: 68-W7-0026

Work Assignment No.: 031-ROBE-051C

Document Control Number.: RFW031-2A-AHSJ

Re: Oversight of Work for Pre-Design Studies at North Bronson Industrial Area Site in

Bronson, Branch County, Michigan.

Dear Ms. Clarke:

Roy F. Weston, Inc. (WESTON<sub>®</sub>) is pleased to submit the two-week oversight report for the North Bronson Industrial Area site in Bronson, Branch County, Michigan. The oversight report is for the period from 27 February through 9 March 2001.

The attached oversight report provides a summary of the daily observations, field logbook entries made by the WESTON® on-site representative, and photodocumentation of field activities.

If you have any questions please call me at 847-918-4088.

Very truly yours,

ROY F. WESTON, INC.

Richard A. Swearingen, P.E.

Site Manager

RAS:sk

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RFW031-2A-AHSJ

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### OVERSIGHT REPORT NORTH BRONSON INDUSTRIAL AREA BRONSON, MICHIGAN

16 March 2001

### Prepared for:

U.S. Environmental Protection Agency Region 5 Emergency and Remedial Response Branch 77 West Jackson Boulevard Chicago, Illinois 60604

Work Assignment No.: 031-ROBE-051C Document Control No.: RFW031-2A-AHSJ OVERSIGHT OF PRE-DESIGN STUDIES WORK NORTH BRONSON INDUSTRIAL AREA SITE BRONSON, BRANCH COUNTY, MICHIGAN 27 FEBRUARY – 9 MARCH 2001

This report summarizes the field oversight of pre-design studies work by ARCADIS (Geraghty and Miller) at the North Bronson Industrial Area Site, in Bronson, Michigan. A Roy F. Weston, Inc. (WESTON<sub>®</sub>) Geologist provided oversight support on 5 of the 8 possible workdays. Photodocumentation of oversight observations is attached to this report.

Field activities at the Site were performed with the purpose of addressing the requirements outlined in the Consent Decree filed in United States District Court for the Western District of Michigan, Southern Division, United States of America vs. Bronson Plating Company, et. Al., entered on 29 February 2000. The data collected during the field activities will be utilized in conjunction with data previously obtained during the Remedial Investigation (RI) to execute an appropriate Remedial Design (RD) and implement the Remedial Action (RA) for the Site, as required in the Record of Decision (ROD).

### **27 February 2001**

Tuesday

Weather: 28° F and fair conditions

Personnel on site included:

Name	<u>Affiliation</u>	<u>Title</u>
Eric Chatterson	WESTON	Project Geologist
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser Jennifer Groth	ARCADIS ARCADIS	Scientist II Scientist II

Mike Mueller	Boart Longyear	Driller
Randy Radke	Boart Longyear	Driller

Kevin WeiseBoart LongyearDrillers HelperRoyce BrownBoart LongyearDrillers HelperJason DrabekBoart LongyearDrillers Helper

Chuck Graff MDEQ Geologist

Joeseph Walczak MDEQ Environmental Quality Analyst

On 27 February 2001, ARCADIS organized equipment and calibrated instruments for two teams of field personnel. Air monitoring equipment included CGI/O2 and FID meters. The CGI/O2 meter was calibrated to a 50% LEL pentane source. The FID (OVA) meter was calibrated to 100-ppm methane. One team would do the monitoring well installation while the other team would advance soil borings. John Keeler assisted by Boart Longyear personnel was responsible for the monitoring well installation. Dave Buser and Jennifer Groth assisted by Boart Longyear personnel advance the soil borings. Field teams donned Level D personal protective equipment ("PPE"). Standard PPE was worn for the duration of field activities. Oversight personnel wore Level D PPE for the duration of the field activities. MDEQ was on site and monitoring soil samples using an XRF meter for field measurements of metals concentrations in soil borings.

After final preparations, including a morning health and safety meeting focusing on air monitoring and general safety issues, the teams began the field tasks. Air monitoring was observed at all well/soil boring locations where WESTON oversight personnel were present. Decontamination of all reusable measuring equipment between wells was observed at the wells where oversight was present. No deficiencies were noted in regards to following the approved Work Plan. The only deviation from the Work Plan was the use of a shorter screen in the monitoring wells than was prescribed. This was necessary due to encountering a clay/silt unit at a shallower depth than expected. Although a deviation from the Work Plan this modification is considered necessary and justified based on unforeseen field conditions.

Completed field tasks at the end of the day included the following:

Monitoring Wells Installed

MW-29

**MW-32S** 

MW-32I

Soil Borings Completed

AGM-SB4

AGM-SB2

Additional site concerns:

MDEQ expresses dissatisfaction pertaining to the lack of impact their XRF data was having

on sample selection. MDEQ felt that a field instrument such as the XRF should be used to

identify sample intervals based on the field measurements. WESTON agreed with MDEQ

that the XRF was a useful screening tool, however, it's use was not in the Work Plan and that

the objective of the sampling task would likely be fulfilled without using the XRF to

designate samples. MDEQ indicated to ARCADIS that they would like to see some

particular intervals sampled. WESTON agreed with the MDEQ that the additional samples

would provide useful data. ARCADIS was informed of Weston's opinion that these

additional samples may be useful but that the decision to send the sample to the lab for

analysis was their choice. WESTON informed MDEQ and ARCADIS that the U.S. EPA

would be informed of the MDEQ concerns pertaining to the XRF.

**28 February 2001** 

Wednesday

Weather: 28° F and fair conditions

\*WESTON oversight not present - the following information was obtained from\*

\*discussions with MDEQ and ARCADIS personnel on March 1, 2001.\*

### Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Jennifer Groth	ARCADIS	Scientist II
Mike Mueller	Boart Longyear	Driller
Randy Radke	Boart Longyear	Driller
Kevin Weise	Boart Longyear	Drillers Helper
Royce Brown	Boart Longyear	Drillers Helper
Jason Drabek	Boart Longyear	Drillers Helper
Chuck Graff Joeseph Walczak	MDEQ MDEQ	Geologist Environmental Quality Analyst
Jueseph Walezak	MIDLO	Environmental Quanty Analyst

On 28 February 2001, ARCADIS, Boart Longyear, and MDEQ personnel were on site. Based on discussions with site personnel the following day (1 March 2001), no deficiencies in adherence to the HASP or scope of work on 28 February 2001 were identified.

Completed field tasks at the end of the day included the following:

### Monitoring Wells Installed

- MW-30
- MW-34S
- MW-34I

### Soil Borings Completed

- AGM-SB8
- AGM-SB9
- AGM-SB10

### Additional site concerns:

MDEQ (Charles Graff) expresses dissatisfaction pertaining to the installation of MW-30. MDEQ felt that a 5-foot screen should have been used. MDEQ requested that a 5-foot screen be used before well installation. ARCADIS noted the MDEQ's objection to a 10-foot screen but installed it anyhow in an attempt to more closely follow the work plan that called for a 10-foot screen. Weston's opinion expressed to MDEQ is that a 5-foot screen would have been the better choice, however, the 10-foot screen will not significantly compromise any future sampling or testing of the well. To resolve this issue, WESTON had a discussion in the morning of March 1, 2001 with ARCADIS indicating that deviating from the scope of work is sometimes required based on unforeseen field conditions and that doing so would not compromise the field work but would instead improve it. WESTON encourages ARCADIS to make the appropriate field decisions if field conditions dictate such even when it requires a deviation from the Work Plan. WESTON also informs ARCADIS that notifying the U.S. EPA of the deviation, preferably before making it would be the appropriate procedure.

### 1 March 2001

Thursday

Weather: 33° F and fair conditions

Personnel on site included:

Name Affiliation Title

Eric Chatterson WESTON Project Geologist

John Keeler (field team leader)ARCADISScientist IIDave BuserARCADISScientist IIJennifer GrothARCADISScientist II

Mike Mueller Boart Longyear Driller Randy Radke Boart Longyear Driller

Kevin Weise Boart Longyear Drillers Helper Royce Brown Boart Longyear Drillers Helper Jason Drabek Boart Longyear Drillers Helper

Joeseph Walczak MDEQ Environmental Quality Analyst

On 27 February 2001, ARCADIS organized equipment and calibrated instruments for two teams of field personnel. Air monitoring equipment included CGI/O2 and FID meters. The CGI/O2 meter was calibrated to a 50% LEL pentane source. The FID (OVA) meter was calibrated to 100-ppm methane. One team was tasked with monitoring well installation while the other team would advance soil borings. MDEQ (Joeseph Walczak) was on site and monitoring soil samples using an XRF meter for field measurements of metals concentrations in soil borings.

Following the advancing of AGM-SB-6 the drill rig became stuck in the bottom of the southernmost eastern lagoon. Upon getting the rig out of the lagoon it was noted that excessive soil had coated the track of the ATV drill rig. The drill rig was then given minimal decontamination at the eastern lagoon area and then transported to the western lagoon decon pad for a thorough decontamination.

Air monitoring was observed at all well/soil boring locations where WESTON oversight personnel were present. Decontamination of all reusable measuring equipment between wells was observed at the wells where oversight was present. No deficiencies were noted in regards to following the approved Work Plan.

Completed field tasks at the end of the day included the following:

### Monitoring Wells Installed

- MW-35S
- MW-35I

### Soil Borings Completed

- AGM-SB1
- AGM-SB3
- AGM-SB5
- AGM-SB6

### Additional site concerns:

ARCADIS has confrontation with owner of property where MW33-S/I is proposed to be located. The property owner (Kim Eichler) confronts John Keller (ARCADIS) and informs him that he is trespassing, that he never signed an access agreement, will not sign an access agreement, and that he wants John Keeler to stay off his property. WESTON contacts the property owner in person the next day and following an explanation of proposed work and a lengthy discussion the property owner agrees to sign the access agreement.

### 2 March 2001

**Friday** 

Weather: 33° F and fair conditions

Personnel on site included:

<u>Affiliation</u>	<u>Title</u>
WESTON	Project Geologist
ADCADIC	Caiantiat II
	Scientist II
ARCADIS	Scientist II
ARCADIS	Scientist II
Boart Longvear	Driller
Boart Longyear	Driller
Boart Longyear	Drillers Helper
Boart Longyear	Drillers Helper
Boart Longyear	Drillers Helper
	WESTON  ARCADIS ARCADIS ARCADIS  Boart Longyear Boart Longyear Boart Longyear Boart Longyear

Chuck Graff MDEQ Geologist

Michael Harris MDEQ Water Quality Technician Chad Rodgers MDEQ Water Quality Technician

2 March 2001, ARCADIS organized equipment and calibrated instruments for two teams of field personnel. Air monitoring equipment included CGI/O2 and FID meters. The CGI/O2 meter was calibrated to a 50% LEL pentane source. The FID (OVA) meter was calibrated to 100-ppm methane. MDEQ was on site and monitoring soil samples using an XRF meter for field measurements of metals concentrations in soil borings.

ARCADIS installs MW-31 in a location east and south of the proposed location. This deviation from the work Plan is approved by U.S. EPA and is supported by both MDEQ and WESTON personnel.

WESTON and the MDEQ sample sediment in a vault/drain with the XRF to see if elevated metals would be detected in the sample. Three samples are taken and all of them yield results similar to the soil borings at the eastern lagoons.

Three attempts are made by WESTON to contact Kim Eichler so that he can sign an access agreement. He is not home or not answering the door on each attempt.

ARCADIS starts well development in the afternoon.

Completed field tasks at the end of the day included the following:

### Monitoring Wells Installed

• MW-31

### Soil Borings Completed

AGM-SB7

### Monitoring Wells Abandoned

- MW-1
- MW-2
- MW-3
- MW-4
- MW-5
- MW-6

### Sediment Samples Collected

- SD-25
- **SD-26**
- **SD-27**

### Additional site concerns:

MDEQ (Chuck Graff) calls WESTON in the evening and expresses dissatisfaction pertaining to the quality of well development by ARCADIS. This dissatisfaction focuses mainly around the lack of surging. WESTON informs MDEQ that ARCADIS will be contacted and proper well development procedures discussed. WESTON contacts John Keeler (ARCADIS) and discusses the requirements for proper well development. John Keeler states that ARCADIS will develop wells more in line with the expectations of the MDEQ.

### 3 March 2001

Saturday

Weather: 28° F and fair conditions

\*WESTON oversight not present - the following information was obtained from\* \*discussions with ARCADIS personnel on March 4, 2001.\*

### Personnel on site included:

Name	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Jennifer Groth	ARCADIS	Scientist II
Mike Mueller	Boart Longyear	Driller
Randy Radke	Boart Longyear	Driller
Kevin Weise	Boart Longyear	Drillers Helper
Royce Brown	Boart Longyear	Drillers Helper
Jason Drabek	Boart Longyear	Drillers Helper

On 3 March 2001, ARCADIS and Boart Longyear personnel were on site. Based on discussions with site personnel the following day (4 March 2001), no deviations from the Work Plan were identified.

The day's activities included well development and collection of sediment samples.

Completed field tasks at the end of the day included the following:

### Sediment Samples Collected

• SD-18 through SD-24

### Additional site concerns:

WESTON attempts to contact Kim Eichler by phone numerous times during the day but no one answers the phone during each attempt. WESTON decides to attempt to contact Kim Eichler in person the next day.

### 4 March 2001

Sunday

Weather: 33° F and fair conditions

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Jennifer Groth	ARCADIS	Scientist II
Mike Mueller	Boart Longyear	Driller
Randy Radke	Boart Longyear	Driller
Kevin Weise	Boart Longyear	Drillers Helper
Royce Brown	Boart Longyear	Drillers Helper
Jason Drabek	Boart Longyear	Drillers Helper

On 4 March 2001, ARCADIS, WESTON and Boart Longyear personnel were on site. WESTON noted no deviations from the Work Plan or HASP.

Active tasks for the day included well development activities.

WESTON was able to contact Kim Eichler at around 11:40 AM and obtain a signature on the access agreement. WESTON transfers the signed access agreement to John Keeler of ARCADIS. John informs WESTON that the wells MW33 S/I will be drilled the following day.

Additional site concerns:

None.

### 5 March 2001

Monday

Weather: 30° F and fair conditions

\*WESTON oversight not present - the following information was obtained from\*

\*discussions with MDEQ and ARCADIS personnel on March 6, 2001.\*

Personnel on site included:

Name	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader) Dave Buser	ARCADIS ARCADIS	Scientist II Scientist II
Mike Mueller	Boart Longyear	Driller
Randy Radke	Boart Longyear	Driller
Kevin Weise	Boart Longyear	Drillers Helper
Royce Brown	Boart Longyear	Drillers Helper
Jason Drabek	Boart Longyear	Drillers Helper
Chuck Graff	MDEQ	

On 5 March 2001, ARCADIS, MDEQ and Boart Longyear personnel were on site. Based on discussions with site personnel the following day (4 March 2001), no deviations from the Work Plan were identified.

The day's activities included well development.

Additional site concerns:

None.

### 6 March 2001

**Tuesday** 

Weather: 31° F and fair conditions

### Personnel on site included:

Name	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Randy Radke	Boart Longyear	Driller
Jason Drabek	Boart Longyear	Drillers Helper

On 6 March 2001, ARCADIS, WESTON and Boart Longyear personnel were on site. No deviations from the Work Plan were identified when oversight was present.

The day's activities included well development. ARCADIS plans to suspend development activities until Monday, 12 March 2001. WESTON discusses schedule with ARCADIS.

Additional site concerns:

None

### **PHOTODOCUMENTATION**

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Area where ATV drill rig was stuck in eastern lagoon.



Discoloration of eastern lagoon sediments in area where ATV drill rig was stuck.



Installation of MW32 S/I at western lagoons.



Western lagoon.



Monitoring well installation (MW-29) at western lagoons.



Well development at MW34 S/I at eastern lagoons.



Well abandonment of MW-3 at western lagoons.



Well development of MW17 S/D at eastern lagoons



Decontamination of ATV drill rig.



ATV drill rig on decontamination pad.

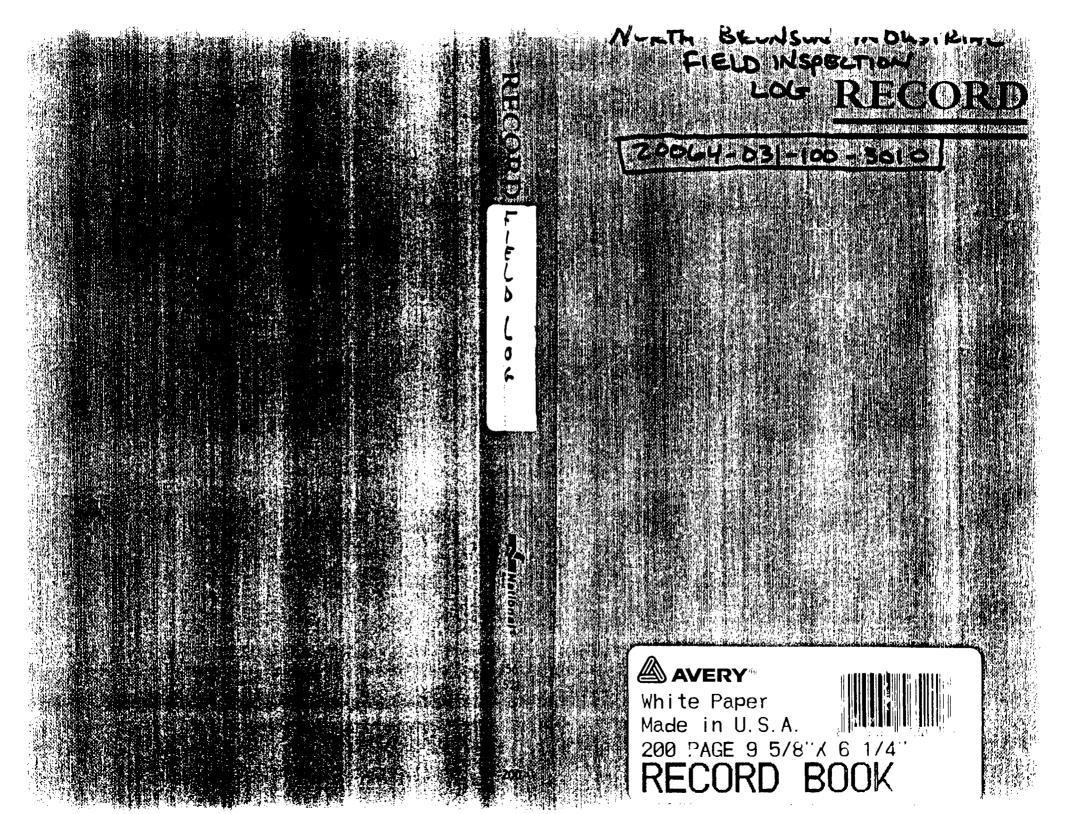


Decontamination pad at western lagoons.



Abandonmed monitoring well MW-3 at western lagoons.

### FIELD LOG





### **GERAGHTY& MILLER ARCADIS**

Tel 414.276.7742 Fax 414 276.7603 ARCADIS Geraghty & Miller, Inc. Milwaukee, Wisconsin 53202 Direct 414.277 6255

JOSEPH WALCZAK

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SITE NOTES & CONTRIT INFOX

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DAN BRILLER (ARCAPIS) 414-276-7742

TOHN FELLER ( ARCHU) (ELC 414 339-0541

CHUCK GRAFF - 517-930-3073

S. MATTESON

WORK - 847-918-4088

312.886.7251

RICK S.

ROSITA CLARKE -

DAVE OPPLIE

190

USEPA











# Michigan Department of Environmental Quality

DEO

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W. STATE W

### ERIC A. CHATTERSON HYDROGEOLOGIST

ROY F. WESTON, INC. OF MICHIGAN 517-381-5927 SUITE 100 53: 517-381-5921 2501 JOLLY ROAD 6hatter@mail.rtweston.com OKEMOS, Mt 48864-1515 www.rfweston.com

TUESDAY 27-FEB-01 280 F ERIC CHATTERSON FAIR 0730 ARRIVE @ SITE - ARCADIS-KONSWIANT I BOART LONGTER (PRILLERS) ALSO ONSTRE SITE IS: WASTE WATER TREATMENT PLANT BOART LONGYER IS (K.W) FEVIN WEISE - HEIPEY BROWN (R.B.) KOYLE (MM) MIKE MUCILER (RR) RAVOY RADE (J.O) JASON DRABEX ARCADIS IS (DIK) JOHN FEILER - GEOLDGIST-SUEVISITE NAVE BUSER - SCIENTISTIE (J.G) TENNIFOR GROTH -SCIENTIST II 0750 MEATH & SAFETY MEETING ON AIR MONITORING EQUIPMENT GEMENT SAFETY ETC. ACTION LEVEL 7101PM on ON 0830 CALIBRATE AIRMONITORIAC EQUIPMENT COI/On - (AZ TO 50% LEZ PENNANE OVA - MR 700 100 PM METHANE ARRIVES 0920 MOED (C6) CHICK GRAFF 1000 SECOND PERSON FROM MOTH APRILES (JW) JUSEPH WALCZAK SPEAR TO STAN WER (H- PRESIDENT OF BROWN PLATING 1330 INSMUNG MW29 WATER @ 25" SILTE CLARE @ 650

BRONSON INDUSTRIAL AREA

1410 DAVE B INSTACLING SOIL BORING ON NW CORNER OF SOUTHERN CAGDON (EAST (Accor) THERES INSTATED BY JOHN FORER. MW-29 TOTAL DEPTH 6.5 SCREEN 3.5' -6.5' 695 SAND 2.5-6.5 655 CONCROTE TO SURFACE MW325 EDB81 Screen 3-8' 555 SMV 2.5-8 655 BEN DNITE 20-25 695 CONCRETE TO SURFACE MW 32 I/S EOB 16 (55) SCREEN 9-12'bgs 8-12'695 (I SAW BENEWITE 2-7'6950 CONCLETE TO SURFACE \* BORINGS INSMICED BY DIE BUSIEL AGM-SBY & AGMSBZ

> E, CC 2-27-01

WEDNESDAY 280F 28-FEB-01 FAIR ERIC CHATTERSON \* - NOT ON SITE HOTES FROM DISCUSSIONS WITH MOEG & AR(ADIS (3-01-01) ON SITE MOFO CHARLES aKAFF TOESEPH WALLTAK ARCNO 5 TOHN K. JEMMIFERLY. DAVE B BORUGS INSTACEO AGM ~5B-8 A6M-SB-9 AG M-5B-10 WELLS INSTALLED MW-30 SILTEN 11° 3-13' Lgs Ie 4' 695 A MOER OBTERTS TO 10'SCREEN WANTS 5'S CREEN . MW-345 MW-34I

2.00

1.1

THUESDAY 1-MAR-01 330F EXIC CHATTERSON FAIR 120 Alux IN BRANCON DNSITE 15 JOHN FELLER ARCA015 JEMIFER GROTH ARCADIS DAVE BUSSER ARCADIS JOE WALCZAK MOED BOART IMETER DRIVERS - DISCUSS ISSUES & DAYS ACTIVITIES WITH JOHN RELLEX ISSUES : A ALLESS FOR MW-31 THE FARMER WOO OWNS LAND DOES NOT WANT WELL IN HIS FIETO - HE IS OF. WITH IT BEING IS MICED @ THE EDGE OF HIS FIELD # ALCES WELL NEST . MW 33 S/1 - THE NEST 15 LOCATED ON COUNTY PROPERTY, HOWEVER THE UND OWNER HAS DENIED ACCESS TU DRIVE TO IT & DRILL RIG STULF IN BOTTOM OF SOUTHERN MOST EASTERN CAROON IN THE GORNING - UPON GETTING IT UNSTUCK IT WAS TRANSPORTED VIA SEMI TO WESTERN I A ON AREA FOR "RON" INT

135- DETON ON PRILL RIG CONFLETE 1330 - JOHN FELER PRILING MW355/1 Q EXTERN LACON AREA KIM EICHLER 517-369-4045 220 N. MATTER ~ Lt Rd. HAVE DISCUSSION WITH KIM 1530 ELCHIER ABOUT PERMISSION TO INSTALL MW 33 S/1 - AFTER MITTERNA WITH HEM, HE GIVES PERMISSION -ME TO ROSITA CLAREER 1600 Intoln HEL THAT MR DIGHEL HAS GIVEN PERMISSION - SHE PLANS TO FAX PERMISSION TIRM TO COTY DEFYCES TOMORDOW MW-30 HAVE DISCUSSION WITH 1515 CHARLES GRAFFIG) ABOUT INSIMILATION OF MW-30. (G- WAS UNHAPPY ABOUT THE USE OF A 10' SCREEN. HE RECOMMENDED TO ARCAMIS THAT A S' SCREEN BE USER, THE'S HOWEVEL CHOISE TO FOLLOW THE wolt più 2 USED A 10' SCREEN. I WFORM Ch THAT I'LL HAVE DISCUSSION WITH ARMOS EXPLAING THEIR ABILITY TO MAKE AN EDVENTED FIELD DELISION IN STATE CIRCUNSTANCE & DEVINE FROM THE WOLF 11AM 1A

TR' OBSMIAT S DOCETTE

15 APPROPRIATE WELLS INSTALLED 3-01-01 MU35-5 0545 MW35-1 MW 35 Sta INSMILED FORTHER SOUTH OF LICATION SHOWN ON MAP BORILGS INSTATLED AGM-58-6 AGM-58-5 AGM -SB-3 AUM -5B-1 1015 END OF REE- REVER WOLK PLAN PROCEDAES ON WERE PEARIBRIENT. 1100 1200 1300 1630

FRIDAY 330F 2-MARCHYOI ERIC CHATTERSON FAIR ALLIVE @ SITE ONSITE IS MYHAEL KARUS (MAGO) ARCHIS CHAO ROCCES (MOER) JOHN K. (J.K) CHICEANTF (MOED) ONTER DAVE B. (O.B) @ × 1030 DIMFER G. (J.G) BOART LMAYER 8-27-0X 2-DRILLERS 3 HETPERS (SAME AS 12-28-01) THE 3 HAND SAMPLES FROM VALITIBLEN & HAVE MOED SCREEN W/XRF. - MEMORS LEVES ALE MODERATERE HIGH (I.C. Cr=2000) ATTEMPT TO COMET FIN ELECTER FOR SCANNA OF ACCESS FEREENSENT -HE'S NOT HOME ATTEMET 2nd Time to private FIM ETCHER-HIS NUCE IS NOW IN THE OKIVENAY HOWEVER HE DIES NOT ANSWER THE DOOR OR PHONEZ CAME SITE MIK TO CHUCK GRAFF (MOEQ) HE IS UNHAPPE ABOUT THE POOR WELL DEVELOPMENT BY ARCHIS - I INF MAINLY THE LACK OF SURFINA, I INFORM HIM THAT I'LL CONTAG ARINIS AND DISCUSS THE OBTERMET OF WELL DEVEROPMENT AM THE PRIMITES RENG US 20

1700 DISCUSS WITH TOHN KORTON (ARCNIS) THE PROPER PROGRETICE FOR WELL DEVERIFRENT & THE NOTO TO SOLVE MULTIPLE THIES BETWEEN PUMPING. HE HARERS STATES THAT HE WILL SURGE THE WELL MORE OFTEN & WILL ATTENIT TO DISCODER AS MANY FORE PARTICLES AS ASSIBLE - WELLS ADAMONED - MK SH SCHEDILED FOR Abhomment MWI-MUG SEVILLENT SAMLES TAKEN 50 25 5026. 50 27 BORINGS INSTITUTED . - Acm -5B7 MONITORIA WELLS INSTITUTED MW-31

FATTROM 3-MRCHOL EXIC CHATTERSON - NOT ON SITE - INFORMATION OBMINED FROM PISCUSSIONS WITH ARCMIS ( TOWN KEILER). SEDIMENT SAMPLES TAKEN 50-18 50-19 50-20 50-21 50-22 50-23 50-24

450F

FAIL

SUNDAY ERIC CHATTERSAN 4-MARCH-01 330K FAIR 1130 ONSITE W . BONET (Matel 12 DRIVERS & 3 HERRES) ARCADIS J.K 1140 GET POR ALLBS PAREENENT SLONED BY FIREKHER. & GIVE TO JOHN KELLER. 1200 LUNCH 1245 ALCADIS CONTINUINA WELL Parignent 1330 DISCUSS SCHEDULE. R ALECTORE WITH ACADIS AS WELL B MOER Concorne 1345 OPPS 178

MONDAY

ERIC CHATTERSON

5-MILH-OI

- NOT ONSITE - INFORMATION

FROM DISCUSSIONS WITH

ALCADIS & CHUCK GRAFF (NDED)

WELLS INSIMPLED:

MW33 S

MW33 I

SCOMENT SAMPLES TAKEN.

3-6-01

```
TUESOM
    6-MARCH-01
                          31UF
    Elic CHATTELSON
                          FAR
1400 ON SITE W/
      BOART MAKER I PRINCE MERPER
      J. K. (ACCAGS)
      O.B. (ARCADIS)
                          MW12 5/0.
     ARCHIS DEVELOPUR EMMLERSI
1500
1530
    PISCUSS BALLING METHORS C
    SUAGEST TRYING & RIGID ROD
    FOR THE SURGE BLOCK TO
    MCREASE PSITUE PRESSURE
    WHILE SURAMA. J.K. SHATES
    HE WILL CONSNUT ARKED
    ROD SYSTEM FOR THE REMANNA
    WELLS
    TMK TO (B) PICK SUEARINGEN INESTO!
1540
    ABOUT FIELD PROGRESS, CONCERNS.
    FTC.
1600
         R.S. FOR CONFERENCE
    CALL
    CALL W/ROSITA - SHE'S
    NOT IN SO R.S. LEAVES
    A MESSHOE,
MOD OFFSITE AFTER DISCUSSION
     ON SCHEPULE WITH ARCHOS
     ARCADIS WILL BEON SITE
    MONDAY 3-12-01 (NOB DAY) e
    BELLY WORK NESDAY 7-13-01
     A SPLIO ROD FOR A SCREE
    BLOCK HANDLE ON TUESDAY AS
    REQUESTED BY MES
         L = 3-6-01
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